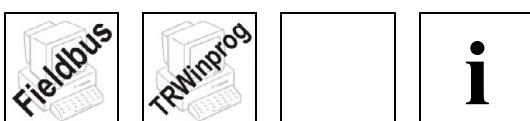


Laser Measuring Device LE-200 EtherNet/IP



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- Robust
- Measurement of linear movement
- Non contact distance measurement
- Measuring distance up to 125m, 170m, 195m other distances on request
- EtherNet/IP interface
- Parametrizable via EtherNet/IP according to the Encoder Device Profile
- Customized adaptations upon request

Characteristics

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Supply voltage	
- Standard	18...27 V DC, ± 5 %
- With heating.....	24 V DC, ± 5 %
Current consumption, without load	
- Standard	< 350 mA
- With heating.....	< 3.5 A
Measurement principle	Phase shift measurement
Measuring length, against reflector foil	0.2...125 m standard, 170m, 195m (special devices)
Resolution selectable ¹⁾	physical resolution 0.1 mm
Linearization	
- up to 12 m, standard.....	absolute linearity error ± 3 mm
- complete measuring length	absolute linearity error ± 5 mm
Reproducibility	± 2 mm
Laser diode, red light	Laser Protection Class 2 according to DIN EN 60 825-1: 2003-10
- Wave length λ.....	670 nm
- Laser power.....	P _{max} ≤ 1 mW
- Lifetime, 25 °C	50 000 h
Measurand output / refresh rate	1000 values / s
Integration time	1 ms
Programmable via RS485	WINDOWS® compatible (TRWinProg) / EtherNet/IP
EtherNet/IP.....	IEC 61784-1:2003 CP 2/2 Type 2, IEC 61158:2003 Type 2
- Physical Layer	EtherNet/IP 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Output code	Binary
- Device profile.....	Encoder Device Profile 0x22, ODVA specification
- Transmission rate.....	100 MBit/s
- Transmission	CAT-5e cable, shielded (STP), ISO/IEC 11801
- Parameter ¹⁾	Count direction, Resolution, Preset value, speed, among others
Switching input / Switching output ¹⁾	
- Levels switching input.....	1-level > +8 V, 0-level < +2 V, up to ±35V, 5 kOhm
- Levels switching output	1-level > US-2 V, 0-level < 1 V, up to 100 mA

¹⁾ programmable parameter

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996.....	$\leq 50 \text{ m/s}^2$, sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	$\leq 300 \text{ m/s}^2$, half-sine 11ms
EMC	
- Transient emissions, DIN EN 61000-6-3: 2007	
- Immunity to disturbance, DIN EN 61000-6-2: 2006	
Working temperature	
- Standard	0..50 °C
- With heating	-30 °C...+50 °C
Storage temperature.....	-20 °C...+75 °C, dry
Thermal drift, related to the max. measuring length	1 ppm / °C at 125 m, 170 m or 195 m
Relative humidity, DIN EN 60068-3-4: 2002	98 %, non condensing
Protection class, DIN EN 60529: 1991 ²⁾	IP 65

²⁾ valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing

